

Amendment to the Claims

1-4. (Cancelled)

5. (New) A fuel injection piping structure for an engine including a plurality of cylinders disposed in a line, a plurality of fuel injectors connected to the plurality of cylinders, respectively, a fuel accumulator for delivering fuel to the fuel injectors, the fuel accumulator having a plurality of fuel exit holes arranged along a longitudinal direction of the fuel accumulator, said piping structure comprising:

a plurality of fuel injection pipes extending between the fuel injectors and the fuel exit holes of the fuel accumulator, wherein

each of the fuel injection pipes is connected to one of the fuel injectors and one of the plurality of fuel exit holes of the fuel accumulator; and

at least two of the fuel injection pipes are arranged so as to cross each other.

6. (New) A fuel injection piping structure for an engine including a plurality of cylinders disposed in a line, a plurality of fuel injectors connected to a plurality of cylinders, respectively, and an in-line pump having a plurality of individual pumps disposed in a line for pressurizing fuel to be delivered to the fuel injectors, respectively, said piping structure comprising:

a plurality of pipes extending between the fuel injectors and the individual pumps of the in-line pump, wherein

each of the fuel injection pipes is connected to one of the fuel injectors and one of the individual pumps of the in-line pump, and

at least two of the fuel injection pipes are arranged so as to cross each other.

7. (New) The fuel injection piping structure according to claim 5, wherein the plurality of the injection pipes have the same length or substantially the same length.

8. (New) The fuel injection piping structure according to claim 6, wherein the plurality of the injection pipes have the same length or substantially the same length.

9. (New) The fuel injection piping structure according to claim 5, wherein the number of injection pipes is four, and at least the two intermediate of the injection pipes cross each other.

10. (New) The fuel injection piping structure according to claim 6, wherein the number of injection pipes is four, and at least the two intermediate of the injection pipes cross each other.

11. (New) The fuel injection piping structure according to claim 5, wherein the plurality of cylinders comprises at least six cylinders, the plurality of fuel injectors comprises at least six fuel injectors, the plurality of fuel exit holes comprises at least six fuel exit holes, and the plurality of pipes comprises at least six pipes,

wherein the six cylinders are numbered first through sixth in a direction from left to right, and the six fuel exit holes are numbered first through sixth in a direction from left to right,

the first pipe is connected between the number one fuel exit hole and the number one fuel injector;

the second pipe is connected between the number two fuel exit hole and the number four fuel injector;

the third pipe is connected between the number three fuel exit hole and the number five fuel injector;

the fourth pipe is connected between the number four fuel exit hole and the number two fuel injector;

the fifth pipe is connected between the number five fuel exit hole and the number three fuel injector; and

the sixth pipe is connected between the number six fuel exit hole and the

number six fuel injector.

12. (New) The fuel injection piping structure according to claim 5, wherein the plurality of cylinders comprises at least six cylinders, the plurality of fuel injectors comprises at least six fuel injectors, the plurality of fuel exit holes comprises at least six fuel exit holes, and the plurality of pipes comprises at least six pipes,

wherein the six cylinders are numbered first through sixth in a direction from left to right, and the six fuel exit holes are numbered first through sixth in a direction from left to right,

the first pipe is connected between the number one fuel exit hole and the number four fuel injector;

the second pipe is connected between the number two fuel exit hole and the number five fuel injector;

the third pipe is connected between the number three fuel exit hole and the number six fuel injector;

the fourth pipe is connected between the number four fuel exit hole and the number one fuel injector;

the fifth pipe is connected between the number five fuel exit hole and the number two fuel injector; and

the sixth pipe is connected between the number six fuel exit hole and the number three fuel injector.

13. (New) The fuel injection piping structure according to claim 6, wherein the plurality of cylinders comprises at least six cylinders, the plurality of fuel injectors comprises at least six fuel injectors, the plurality of individual pumps comprises at least six individual pumps, and the plurality of pipes comprises at least six pipes,

wherein the six cylinders are numbered first through sixth in a direction from left to right, and the six individual pumps are numbered first through sixth in a direction from left to right,

the first pipe is connected between the number one individual pump and the number one fuel injector;

the second pipe is connected between the number two individual pump and the number four fuel injector;

the third pipe is connected between the number three individual pump and the number five fuel injector;

the fourth pipe is connected between the number four individual pump and the number two fuel injector;

the fifth pipe is connected between the number five individual pump and the number three fuel injector; and

the sixth pipe is connected between the number six individual pump and the number six fuel injector.

14. (New) The fuel injection piping structure according to claim 6, wherein the plurality of cylinders comprises at least six cylinders, the plurality of fuel injectors comprises at least six fuel injectors, the plurality of individual pumps comprises at least six individual pumps, and the plurality of pipes comprises at least six pipes,

wherein the six cylinders are numbered first through sixth in a direction from left to right, and the six individual pumps are numbered first through sixth in a direction from left to right,

the first pipe is connected between the number one individual pump and the number four fuel injector;

the second pipe is connected between the number two individual pump and the number five fuel injector;

the third pipe is connected between the number three individual pump and the number six fuel injector;

the fourth pipe is connected between the number four individual pump and the number one fuel injector;

the fifth pipe is connected between the number five individual pump and the

number two fuel injector; and

the sixth pipe is connected between the number six individual pump and the number three fuel injector.

15. (New) The fuel injection piping structure according to claim 5, wherein the plurality of cylinders comprises at least eight cylinders, the plurality of fuel injectors comprises at least eight fuel injectors, the plurality of fuel exit holes comprises at least eight fuel exit holes, and the plurality of pipes comprises at least eight pipes,

wherein the eight cylinders are numbered first through eighth in a direction from left to right, and the eight fuel exit holes are numbered first through eighth in a direction from left to right,

the first pipe is connected between the number one fuel exit hole and the number one fuel injector;

the second pipe is connected between the number two fuel exit hole and the number five fuel injector;

the third pipe is connected between the number three fuel exit hole and the number six fuel injector;

the fourth pipe is connected between the number four fuel exit hole and the number seven fuel injector;

the fifth pipe is connected between the number five fuel exit hole and the number two fuel injector;

the sixth pipe is connected between the number six fuel exit hole and the number three fuel injector;

the seventh pipe is connected between the number seven fuel exit hole and the number four fuel injector; and

the eighth pipe is connected between the number eight fuel exit hole and the number eight fuel injector.

16. (New) The fuel injection piping structure according to claim 5, wherein the

plurality of cylinders comprises at least eight cylinders, the plurality of fuel injectors comprises at least eight fuel injectors, the plurality of fuel exit holes comprises at least eight fuel exit holes, and the plurality of pipes comprises at least eight pipes,

wherein the eight cylinders are numbered first through eighth in a direction from left to right, and the eight fuel exit holes are numbered first through eighth in a direction from left to right,

the first pipe is connected between the number one fuel exit hole and the number five fuel injector;

the second pipe is connected between the number two fuel exit hole and the number six fuel injector;

the third pipe is connected between the number three fuel exit hole and the number seven fuel injector;

the fourth pipe is connected between the number four fuel exit hole and the number eight fuel injector;

the fifth pipe is connected between the number five fuel exit hole and the number one fuel injector;

the sixth pipe is connected between the number six fuel exit hole and the number two fuel injector;

the seventh pipe is connected between the number seven fuel exit hole and the number three fuel injector; and

the eighth pipe is connected between the number eight fuel exit hole and the number four fuel injector.

17. (New) The fuel injection piping structure according to claim 6, wherein the plurality of cylinders comprises at least eight cylinders, the plurality of fuel injectors comprises at least eight fuel injectors, the plurality of individual pumps comprises at least eight individual pumps, and the plurality of pipes comprises at least eight pipes,

wherein the eight cylinders are numbered first through eighth in a direction from left to right, and the eight individual pumps are numbered first through eighth in a

direction from left to right,

the first pipe is connected between the number one individual pump and the number one fuel injector;

the second pipe is connected between the number two individual pump and the number five fuel injector;

the third pipe is connected between the number three individual pump and the number six fuel injector;

the fourth pipe is connected between the number four individual pump and the number seven fuel injector;

the fifth pipe is connected between the number five individual pump and the number two fuel injector;

the sixth pipe is connected between the number six individual pump and the number three fuel injector;

the seventh pipe is connected between the number seven individual pump and the number four fuel injector; and

the eighth pipe is connected between the number eight individual pump and the number eight fuel injector.

18. (New) The fuel injection piping structure according to claim 6, wherein the plurality of cylinders comprises at least eight cylinders, the plurality of fuel injectors comprises at least eight fuel injectors, the plurality of individual pumps comprises at least eight individual pumps, and the plurality of pipes comprises at least eight pipes,

wherein the eight cylinders are numbered first through eighth in a direction from left to right, and the eight individual pumps are numbered first through eighth in a direction from left to right,

the first pipe is connected between the number one individual pump and the number five fuel injector;

the second pipe is connected between the number two individual pump and the number six fuel injector;

the third pipe is connected between the number three individual pump and the number seven fuel injector;

the fourth pipe is connected between the number four individual pump and the number eight fuel injector;

the fifth pipe is connected between the number five individual pump and the number one fuel injector;

the sixth pipe is connected between the number six individual pump and the number two fuel injector;

the seventh pipe is connected between the number seven individual pump and the number three fuel injector; and

the eighth pipe is connected between the number eight individual pump and the number four fuel injector.